

### **Amendments to the Specification**

Please replace the paragraph beginning on page 6, line 4 and ending on page 6, line 11 with the following paragraph:

Before proceeding, it is important to note the differences between a reactor or reactor bed and a combustor. A combustor is a zone for nearly adiabatic flame combustion of a fuel-air mixture within a microturbine engine. Reactor beds or reactors, on the other hand, provide for non-adiabatic combustion within the small interstitial spaces of the reactor bed. An ideal combustor transfers no heat to the walls of the combustor, while an ideal reactor bed transfers ~~all of~~ some of the heat of combustion to the walls of the bed such that the walls enhance flame stabilization. As such, a reactor or reactor bed is not a combustor, and a combustor is not a reactor bed.